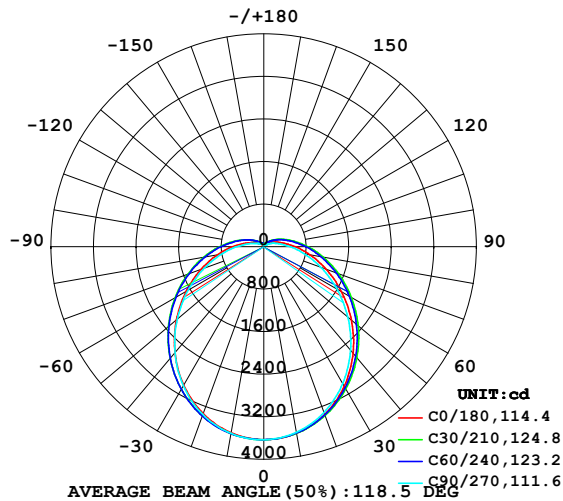


LUMINAIRE PHOTOMETRIC TEST REPORT

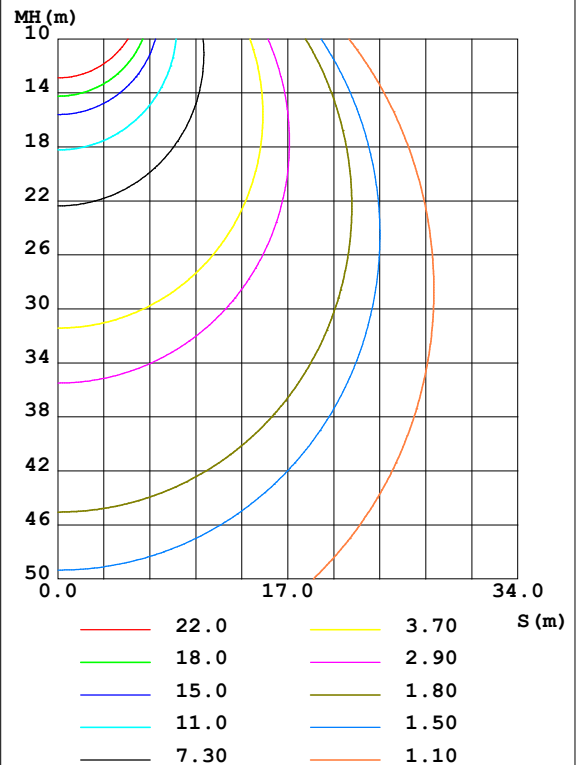
Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 147.34 lm/W			
MODEL		I _{max} (cd)	3631	S/MH (C0/180)	1.24
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE(V)	230	TOTAL FLUX (lm)	12312	η UP,DN (C0-180)	4.7,45.1
NOMINAL FLUX(lm)	12311.6	CIE CLASS	DIRECT	η UP,DN (C180-360)	4.6,45.6
LAMPS INSIDE	1	η up (%)	9.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	90.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3561	3564	3544	3536	3553	3568	3567	3555	0- 10	343.0	343.0	2.79,2.79
20	3356	3378	3318	3283	3341	3388	3358	3316	10- 20	977.6	1321	10.7,10.7
30	3030	3090	2973	2899	3010	3107	3025	2938	20- 30	1469	2790	22.7,22.7
40	2614	2732	2541	2422	2599	2755	2599	2458	30- 40	1757	4547	36.9,36.9
50	2153	2331	2064	1889	2147	2359	2125	1917	40- 50	1822	6368	51.7,51.7
60	1686	1919	1587	1336	1688	1949	1645	1347	50- 60	1685	8054	65.4,65.4
70	1251	1518	1145	782.7	1258	1542	1194	774.7	60- 70	1398	9452	76.8,76.8
80	878.2	1154	772.8	275.1	883.0	1167	805.7	254.8	70- 80	1032	10484	85.2,85.2
90	591.7	848.4	497.1	13.65	588.3	847.7	510.6	12.45	80- 90	684.3	11169	90.7,90.7
100	389.3	606.0	313.3	9.055	366.2	595.5	311.4	11.77	90-100	440.3	11609	94.3,94.3
110	252.5	421.8	196.0	12.46	229.5	407.1	190.8	16.14	100-110	280.3	11889	96.6,96.6
120	162.9	283.6	107.7	16.38	136.1	266.2	123.0	20.62	110-120	173.6	12063	98,98
130	110.5	186.8	68.32	20.38	82.47	165.2	86.80	25.10	120-130	104.6	12167	98.8,98.8
140	82.17	123.6	51.98	25.01	61.01	111.5	69.04	29.86	130-140	63.21	12231	99.3,99.3
150	66.95	87.03	47.15	30.20	50.97	80.32	57.51	34.68	140-150	39.47	12270	99.7,99.7
160	55.42	66.11	45.22	35.11	46.70	62.03	49.62	38.53	150-160	24.51	12295	99.9,99.9
170	46.53	50.15	42.62	39.19	41.03	46.99	43.06	40.92	160-170	13.08	12308	100,100
180	40.66	38.76	40.90	41.85	40.72	38.72	40.92	41.84	170-180	3.996	12312	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 5463 lm

%lum = 44.4%

%lamp = 44.4%

Conical surface Flux(120deg): 8053.8 lm

%lum = 65.4%

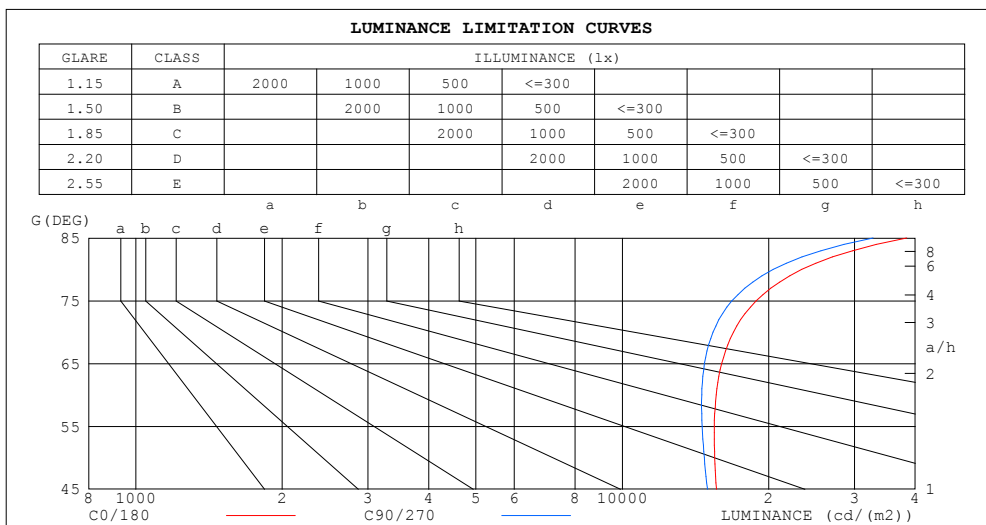
%lamp = 65.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:30 March 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



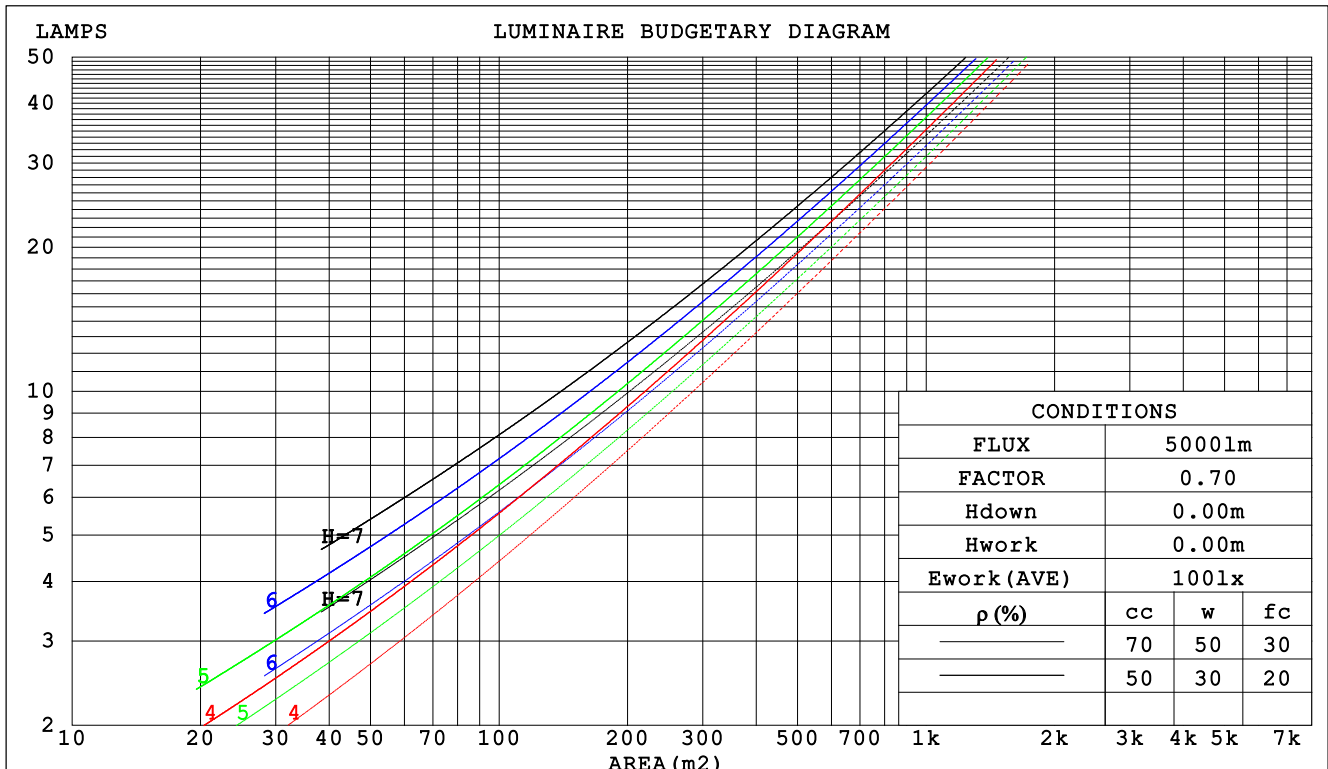
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 30 March 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.99	.99	.99	.94	.94	.94	.91
1.0	.99	.94	.90	.96	.92	.88	.90	.86	.83	.85	.82	.79	.79	.77	.75	.72
2.0	.86	.78	.72	.83	.76	.70	.78	.72	.67	.73	.69	.64	.69	.65	.62	.59
3.0	.75	.66	.59	.73	.65	.58	.68	.61	.56	.64	.59	.54	.60	.56	.52	.49
4.0	.66	.57	.50	.64	.56	.49	.60	.53	.47	.57	.51	.46	.54	.49	.44	.42
5.0	.59	.50	.43	.57	.49	.42	.54	.47	.41	.51	.45	.40	.48	.43	.38	.36
6.0	.53	.44	.37	.52	.43	.37	.49	.41	.36	.46	.40	.35	.44	.38	.34	.31
7.0	.48	.39	.33	.47	.38	.32	.44	.37	.31	.42	.36	.31	.40	.34	.30	.28
8.0	.44	.35	.29	.43	.34	.29	.41	.33	.28	.39	.32	.27	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.37	.30	.25	.36	.29	.25	.34	.28	.24	.22
10.0	.37	.29	.24	.36	.29	.23	.34	.28	.23	.33	.27	.22	.31	.26	.22	.20



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.355	.202	.064	.345	.197	.063	.326	.187	.060	.309	.178	.057	.293	.170	.055		
2.0	.315	.173	.053	.307	.169	.052	.290	.161	.050	.274	.154	.048	.260	.147	.046		
3.0	.284	.151	.045	.276	.148	.045	.261	.142	.043	.247	.135	.042	.234	.130	.040		
4.0	.258	.134	.039	.251	.131	.039	.237	.126	.038	.225	.121	.036	.213	.116	.035		
5.0	.236	.120	.035	.230	.118	.034	.218	.113	.033	.206	.109	.032	.196	.104	.031		
6.0	.217	.109	.031	.212	.107	.031	.201	.103	.030	.190	.099	.029	.181	.095	.028		
7.0	.201	.100	.028	.196	.098	.028	.186	.094	.027	.177	.091	.026	.168	.087	.026		
8.0	.187	.092	.026	.183	.090	.025	.173	.087	.025	.165	.084	.024	.157	.080	.023		
9.0	.175	.085	.024	.171	.083	.023	.162	.080	.023	.154	.077	.022	.147	.075	.022		
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.145	.072	.021	.138	.070	.020		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.261	.261	.261	.223	.223	.223	.152	.152	.152	.088	.088	.088	.028	.028	.028	
1.0	.255	.227	.202	.218	.195	.174	.149	.134	.120	.086	.078	.070	.027	.025	.023	
2.0	.247	.204	.167	.212	.175	.144	.145	.121	.101	.084	.071	.059	.027	.023	.019	
3.0	.239	.187	.144	.205	.161	.125	.141	.112	.088	.081	.065	.052	.026	.021	.017	
4.0	.232	.174	.129	.199	.150	.112	.137	.105	.079	.079	.061	.047	.025	.020	.015	
5.0	.224	.164	.119	.192	.142	.104	.132	.099	.073	.077	.058	.043	.025	.019	.014	
6.0	.217	.155	.112	.186	.135	.097	.128	.094	.069	.074	.055	.041	.024	.018	.013	
7.0	.210	.149	.106	.180	.129	.092	.125	.090	.065	.072	.053	.039	.023	.017	.013	
8.0	.203	.143	.102	.175	.124	.089	.121	.087	.063	.070	.051	.038	.023	.017	.012	
9.0	.197	.138	.098	.169	.120	.086	.117	.084	.061	.068	.050	.036	.022	.016	.012	
10.0	.191	.134	.096	.165	.116	.084	.114	.082	.059	.067	.048	.035	.022	.016	.012	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm										
NAME: T21CP-LC-80-1500K-50H					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	13.5	15.0	13.9	15.4	15.7	13.3	14.7	13.7	15.1	15.5
3H	15.6	16.9	16.0	17.3	17.7	15.2	16.5	15.6	16.9	17.3
4H	16.6	17.9	17.0	18.3	18.7	16.1	17.4	16.6	17.8	18.3
6H	17.7	18.8	18.1	19.3	19.8	17.1	18.3	17.6	18.8	19.2
8H	18.2	19.4	18.7	19.8	20.3	17.6	18.8	18.1	19.2	19.7
12H	18.9	20.0	19.3	20.4	20.9	18.2	19.3	18.7	19.8	20.3
4H 2H	14.4	15.6	14.8	16.1	16.5	14.2	15.4	14.6	15.9	16.3
3H	16.7	17.8	17.2	18.2	18.7	16.4	17.5	16.9	17.9	18.4
4H	17.9	18.9	18.4	19.4	19.9	17.5	18.6	18.1	19.0	19.6
6H	19.2	20.1	19.7	20.6	21.2	18.7	19.7	19.3	20.2	20.7
8H	19.9	20.7	20.4	21.3	21.8	19.4	20.2	19.9	20.7	21.3
12H	20.6	21.4	21.2	22.0	22.6	20.0	20.8	20.6	21.4	22.0
8H 4H	18.5	19.4	19.1	19.9	20.5	18.2	19.1	18.8	19.6	20.2
6H	20.1	20.9	20.7	21.4	22.1	19.8	20.5	20.4	21.1	21.7
8H	21.0	21.7	21.6	22.3	22.9	20.6	21.3	21.2	21.8	22.5
12H	22.1	22.6	22.7	23.2	23.9	21.5	22.1	22.2	22.7	23.4
12H 4H	18.6	19.4	19.2	20.0	20.6	18.4	19.2	18.9	19.7	20.3
6H	20.4	21.0	21.0	21.6	22.3	20.1	20.7	20.7	21.3	21.9
8H	21.4	22.0	22.1	22.6	23.3	21.1	21.6	21.7	22.2	22.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.5				

CIE Pub.117, 12312 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.7$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

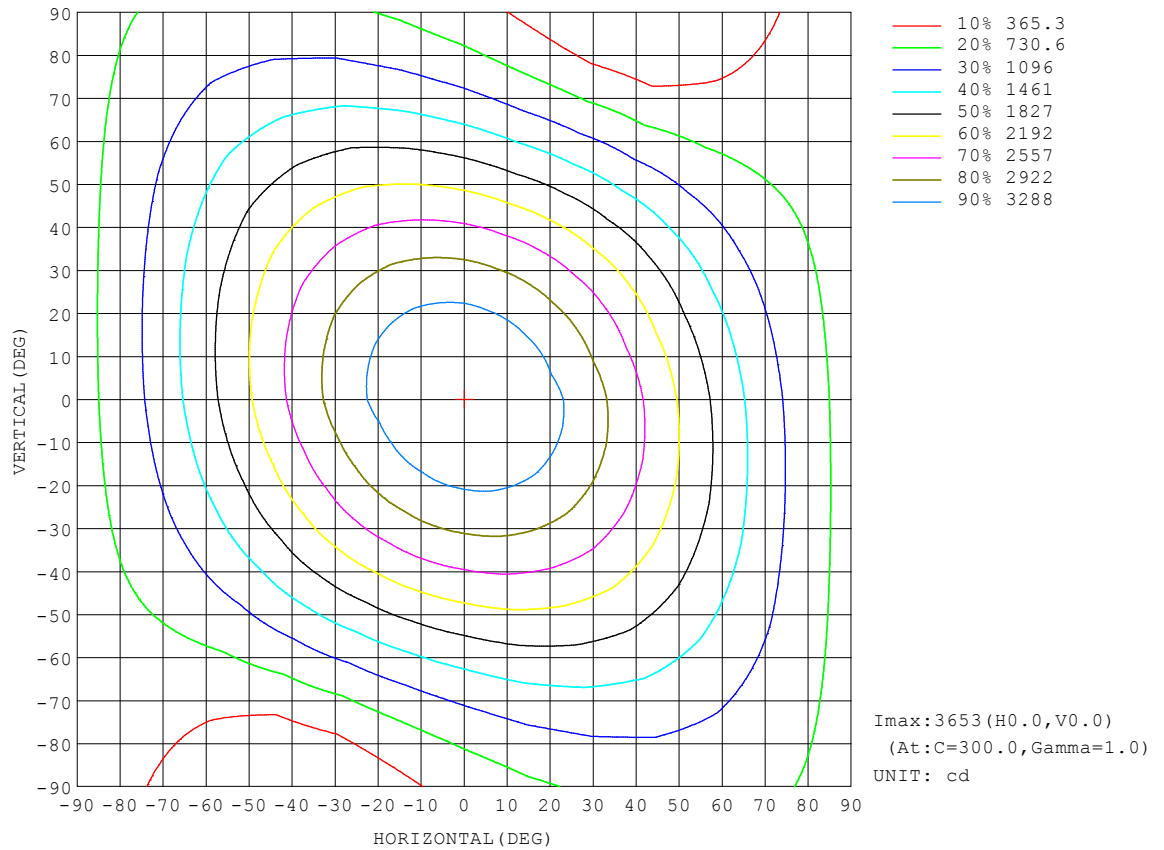
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	41	34	52	40	34	50	40	33	27
0.80	62	50	42	61	49	42	59	48	41	34
1.00	70	58	50	69	57	50	66	58	49	41
1.25	77	65	58	75	64	57	72	62	56	47
1.50	82	71	63	80	70	62	76	67	61	52
2.00	89	79	72	87	77	71	82	74	68	59
2.50	93	84	77	91	82	76	85	79	73	63
3.00	97	88	82	94	86	80	89	82	77	66
4.00	101	94	88	98	92	86	92	87	83	71
5.00	104	98	93	101	95	90	95	90	86	74
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

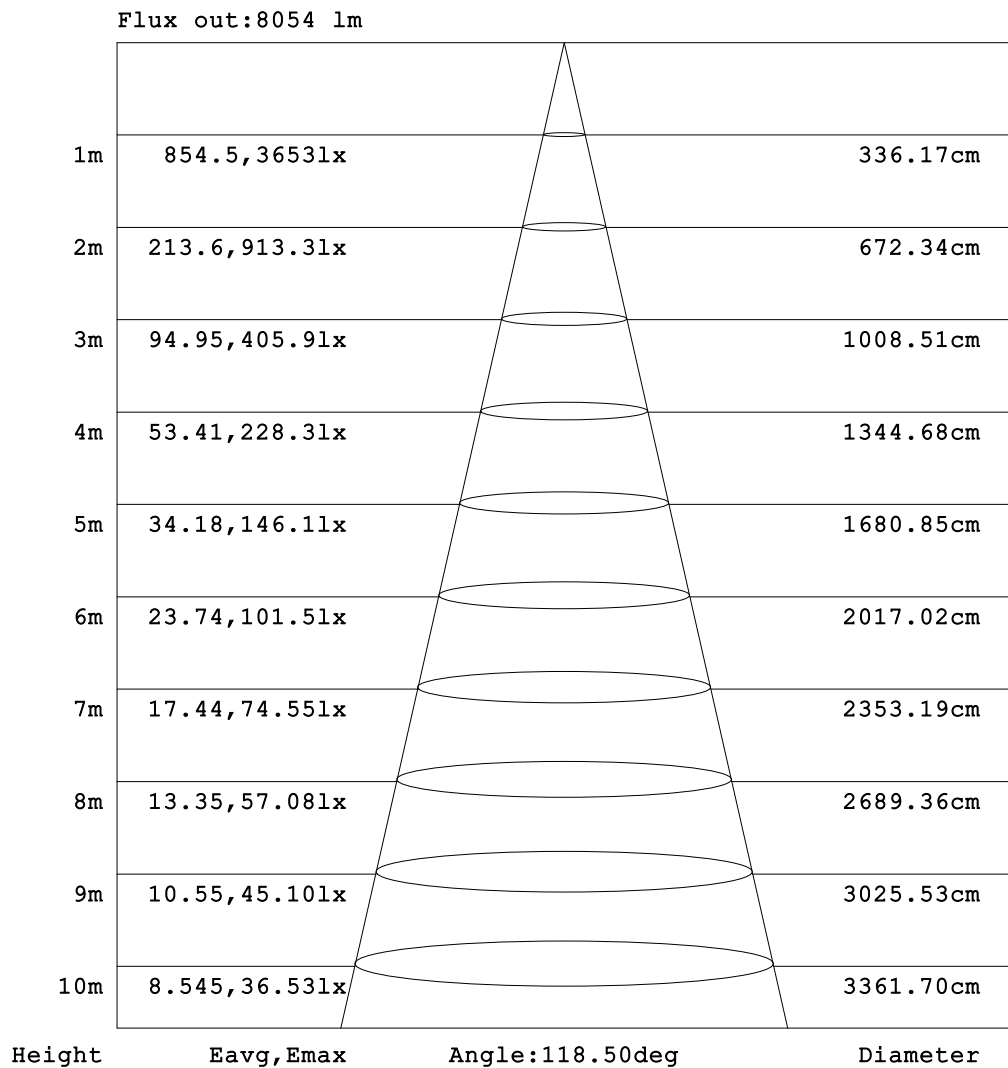


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



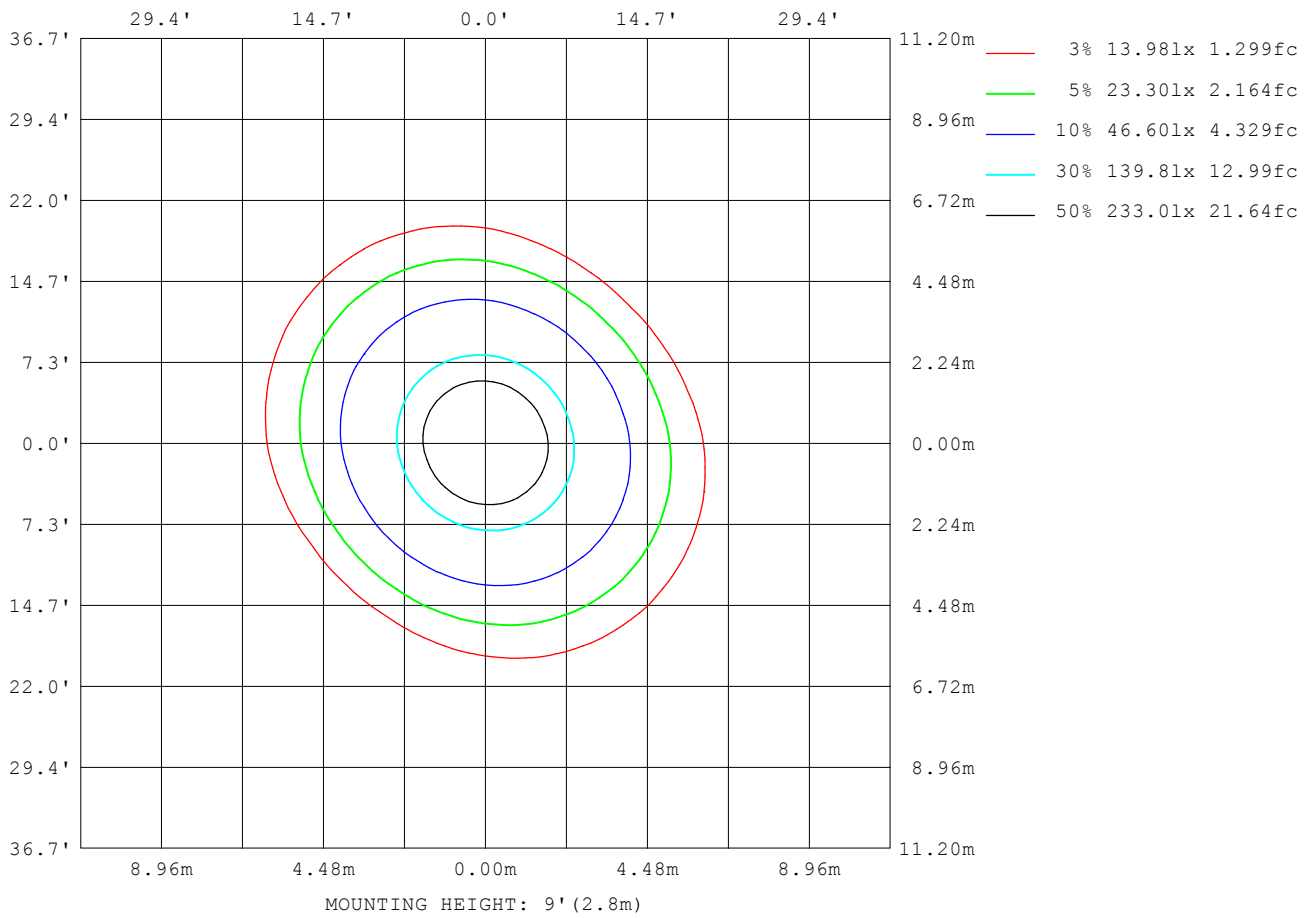
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 30 March 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

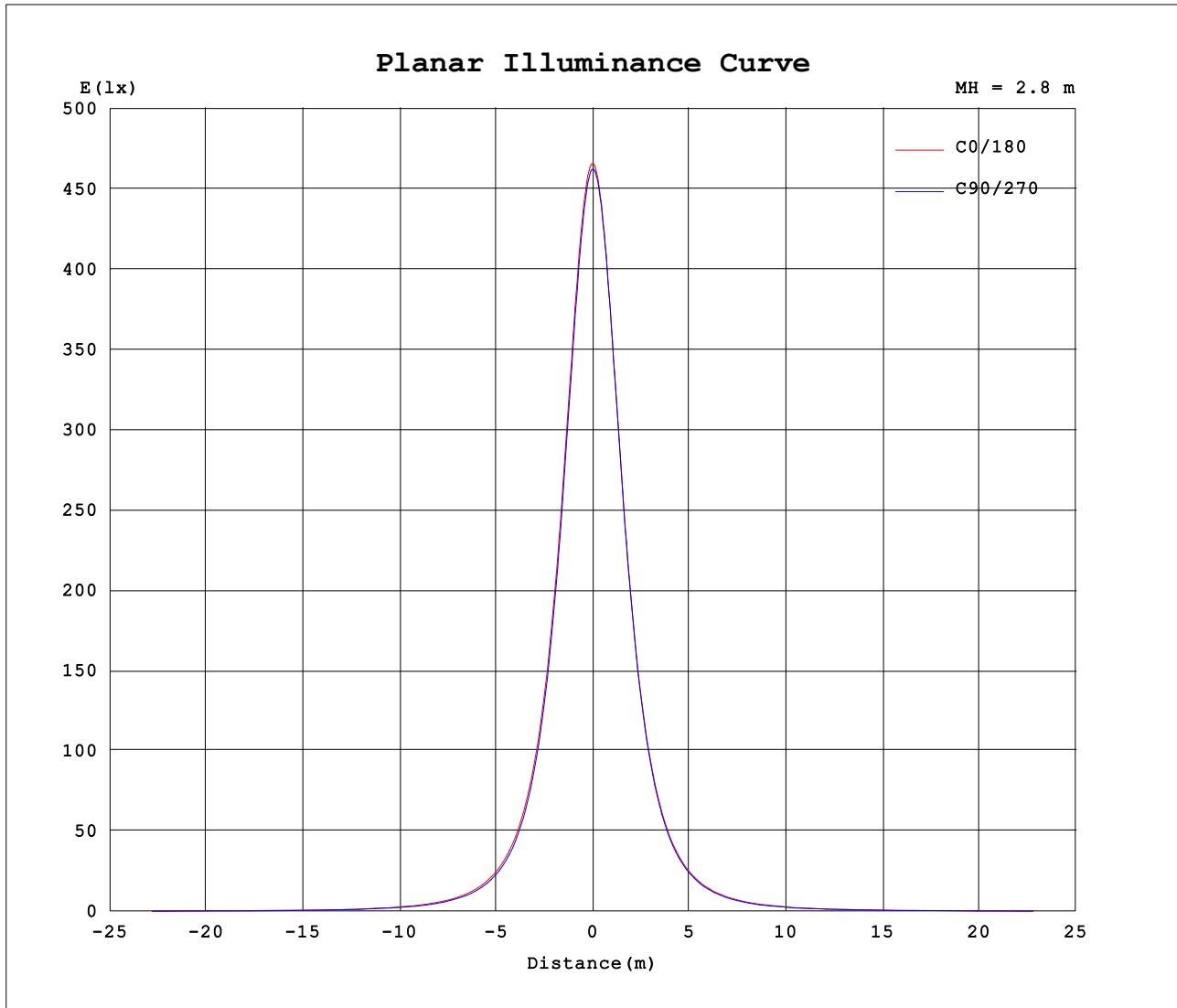
AvgL	cd/m2
L_0~180 (65) av	15936
L_0~180 (75) av	18792
L_0~180 (85) av	38204
L_90~270 (65) av	15073
L_90~270 (75) av	17198
L_90~270 (85) av	33426
L_45 (65) av	15153
L_45 (75) av	16413
L_45 (85) av	28449

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 30 March 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm																	
NAME: T21CP-LC-80-1500K-50H									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:						Shielding Angle:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630
5	3612	3615	3613	3612	3611	3608	3605	3604	3603	3604	3603	3606	3609	3612	3616	3614	3616	3616	3617
10	3561	3566	3564	3564	3560	3554	3544	3539	3534	3536	3536	3546	3553	3563	3569	3568	3572	3568	3567
15	3475	3487	3486	3485	3476	3465	3447	3437	3426	3428	3431	3447	3464	3478	3491	3493	3495	3488	3481
20	3356	3375	3378	3378	3363	3347	3318	3299	3281	3283	3289	3313	3341	3364	3384	3388	3389	3374	3358
25	3206	3236	3244	3246	3226	3199	3158	3130	3103	3105	3115	3151	3187	3223	3253	3259	3256	3232	3206
30	3030	3071	3089	3090	3064	3027	2973	2932	2899	2899	2912	2959	3010	3059	3098	3107	3101	3063	3025
35	2830	2888	2914	2919	2885	2834	2765	2712	2670	2669	2689	2745	2813	2875	2927	2937	2926	2876	2821
40	2614	2689	2724	2732	2691	2628	2541	2474	2423	2422	2444	2515	2599	2679	2741	2755	2737	2673	2599
45	2387	2478	2525	2535	2487	2410	2306	2223	2164	2160	2188	2272	2375	2471	2545	2561	2537	2457	2366
50	2153	2262	2319	2331	2277	2188	2064	1966	1895	1889	1924	2025	2147	2257	2342	2359	2329	2236	2125
55	1917	2042	2110	2125	2066	1963	1823	1706	1621	1614	1656	1774	1915	2042	2135	2154	2119	2013	1883
60	1686	1826	1902	1919	1856	1743	1587	1448	1348	1336	1390	1528	1688	1827	1928	1949	1908	1791	1645
65	1462	1615	1697	1715	1651	1529	1359	1198	1075	1057	1128	1290	1469	1618	1722	1743	1700	1575	1413
70	1251	1412	1498	1518	1451	1326	1145	963	811	783	879	1065	1258	1415	1520	1542	1496	1366	1194
75	1055	1220	1309	1329	1263	1136	948	750	563	519	648	858	1062	1221	1328	1348	1301	1169	989
80	878	1045	1133	1154	1090	963	773	561	345	275	444	672	883	1043	1147	1167	1119	989	806
85	724	886	973	994	932	809	623	407	184	91.6	283	515	725	881	981	1000	953	825	645
90	592	746	829	848	791	674	497	292	87.2	13.7	172	385	588	736	830	848	803	682	511
95	481	624	701	719	666	557	395	210	45.3	7.72	105	287	472	609	697	713	671	559	398
100	389	518	589	606	557	460	313	153	29.9	9.05	68.3	214	366	483	580	596	557	455	311
105	314	428	492	508	465	375	248	114	25.4	10.7	49.9	161	293	396	475	494	460	369	243
110	253	350	409	422	384	305	196	81.8	23.8	12.5	41.2	124	229	327	371	407	374	297	191
115	203	286	337	347	316	248	147	62.3	23.2	14.5	37.5	97.9	183	257	306	333	304	238	152
120	163	232	275	284	257	201	108	51.3	23.4	16.4	35.9	80.9	136	210	243	266	246	191	123
125	133	188	223	230	208	154	83.3	44.8	24.0	18.3	35.6	69.9	101	170	200	203	198	155	102
130	110	153	180	187	169	110	68.3	41.3	25.0	20.4	35.8	62.6	82.5	134	163	165	159	127	86.8
135	94.0	126	146	152	138	86.7	58.5	39.4	26.4	22.6	36.4	57.7	70.1	98.2	134	135	121	106	76.0
140	82.2	105	120	124	113	72.3	52.0	38.6	28.8	25.0	36.9	54.4	61.0	80.0	110	112	101	89.7	69.0
145	73.6	89.8	99.6	103	84.3	62.6	48.1	39.5	31.1	27.6	37.3	51.8	55.0	67.3	92.3	93.5	87.1	77.2	62.6
150	67.0	78.6	84.8	87.0	66.1	56.0	47.1	40.2	33.1	30.2	37.7	49.5	51.0	60.8	79.5	80.3	76.5	66.2	57.5
155	61.1	69.8	73.8	75.5	56.4	50.7	46.6	40.7	35.2	32.8	38.3	47.3	49.3	56.1	66.0	70.4	67.8	61.0	53.9
160	55.4	61.9	64.5	66.1	49.3	46.7	45.2	41.0	36.9	35.1	38.5	44.7	46.7	49.9	54.2	62.0	59.5	55.6	49.6
165	50.4	54.4	56.1	57.5	45.7	44.6	43.9	41.1	38.5	37.2	38.9	43.0	42.9	44.5	46.3	54.2	51.9	49.7	45.4
170	46.5	48.8	49.2	50.1	41.3	43.0	42.6	41.1	39.8	39.2	39.9	41.3	41.0	41.4	40.4	47.0	45.2	44.8	43.1
175	42.8	43.5	43.0	39.1	39.0	41.1	41.3	41.1	41.0	40.9	41.3	41.6	40.3	39.6	37.6	41.4	40.7	41.3	41.1
180	40.7	40.5	39.7	38.8	39.4	40.5	40.9	41.3	41.6	41.9	42.2	42.2	40.7	40.6	39.8	38.7	39.4	40.5	40.9

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:30 March 2018

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362

Humidity:53.0%

Test Distance:10.380m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.5V I:0.3714A P:83.56W PF:0.9719 Freq:49.99Hz Lamp Flux:12311.6x1 lm		
NAME: T21CP-LC-80-1500K-50H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	3630	3630	3630	3630	3630														
5	3615	3616	3613	3613	3613														
10	3560	3559	3555	3556	3557														
15	3466	3461	3456	3461	3465														
20	3336	3325	3316	3325	3336														
25	3171	3155	3142	3156	3175														
30	2977	2952	2938	2957	2985														
35	2758	2726	2708	2733	2771														
40	2519	2478	2458	2488	2536														
45	2268	2215	2191	2229	2290														
50	2007	1942	1917	1958	2035														
55	1744	1663	1633	1683	1779														
60	1483	1382	1347	1410	1527														
65	1230	1103	1059	1139	1282														
70	991	833	775	881	1054														
75	771	578	501	643	845														
80	576	351	255	437	662														
85	418	184	73.2	277	510														
90	296	88.7	12.5	173	389														
95	210	46.0	10.02	110	297														
100	149	31.1	11.8	74.8	227														
105	110	27.1	14.0	55.3	168														
110	85.9	26.2	16.1	45.7	132														
115	70.8	27.2	18.3	40.7	99.5														
120	61.2	28.6	20.6	38.7	80.4														
125	55.7	30.2	22.8	38.1	68.5														
130	53.0	31.7	25.1	38.0	60.7														
135	51.5	33.0	27.4	38.1	55.8														
140	49.0	34.5	29.9	38.7	52.4														
145	48.0	36.0	32.2	39.6	51.1														
150	46.8	37.5	34.7	41.0	50.0														
155	44.8	38.6	36.8	41.9	48.8														
160	43.8	39.5	38.5	42.3	47.3														
165	42.5	40.0	39.9	42.4	45.9														
170	41.3	40.6	40.9	42.4	44.4														
175	41.1	41.2	41.6	42.4	43.0														
180	41.3	41.6	41.8	42.2	42.2														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630
3.0	3624	3625	3623	3623	3622	3621	3620	3619	3618	3620
6.0	3606	3608	3605	3606	3603	3601	3596	3595	3593	3594
9.0	3574	3578	3577	3576	3572	3569	3559	3556	3552	3552
12.0	3532	3539	3536	3536	3530	3523	3510	3503	3496	3497
15.0	3475	3487	3486	3485	3476	3465	3447	3437	3426	3428
18.0	3407	3423	3426	3424	3413	3397	3374	3358	3342	3345
21.0	3328	3350	3354	3353	3339	3320	3289	3267	3248	3250
24.0	3238	3265	3273	3274	3255	3231	3192	3165	3142	3143
27.0	3137	3173	3185	3186	3163	3132	3086	3054	3024	3025
30.0	3030	3071	3089	3090	3064	3027	2973	2932	2899	2899
33.0	2912	2963	2985	2989	2958	2914	2850	2802	2764	2763
36.0	2788	2850	2877	2881	2847	2794	2720	2666	2622	2621
39.0	2659	2730	2763	2770	2730	2670	2586	2522	2474	2471
42.0	2524	2606	2646	2653	2610	2541	2447	2375	2320	2318
45.0	2387	2478	2525	2535	2487	2410	2306	2223	2164	2160
48.0	2246	2349	2401	2412	2361	2277	2162	2069	2003	1998
51.0	2106	2218	2277	2289	2235	2143	2016	1914	1841	1835
54.0	1964	2086	2152	2166	2108	2009	1872	1757	1678	1670
57.0	1824	1956	2026	2042	1981	1875	1728	1601	1512	1503
60.0	1686	1826	1902	1919	1856	1743	1587	1448	1348	1336
63.0	1550	1699	1778	1797	1732	1614	1449	1298	1184	1168
66.0	1420	1574	1657	1675	1609	1488	1315	1150	1022	1002
69.0	1292	1452	1537	1557	1490	1366	1186	1009	863.1	837.2
72.0	1170	1333	1421	1441	1375	1248	1064	874.7	709.0	674.6
75.0	1055	1220	1309	1329	1263	1136	947.9	749.6	563.1	518.7
78.0	946.2	1113	1202	1222	1157	1030	839.9	633.0	426.9	367.1
81.0	845.7	1011	1100	1121	1057	930.3	740.7	527.7	306.8	232.6
84.0	752.5	916.7	1004	1024	962.4	837.9	650.7	436.4	211.2	121.8
87.0	669.1	827.9	913.6	933.8	873.7	752.3	569.7	356.7	135.2	44.89
90.0	591.7	746.1	829.0	848.4	790.7	673.7	497.1	292.1	87.22	13.65
93.0	523.1	670.5	750.0	768.5	713.7	601.6	432.6	238.7	57.66	7.886
96.0	460.9	600.9	676.9	694.9	642.8	536.2	376.7	196.3	40.77	7.899
99.0	406.1	538.2	610.0	627.1	577.9	477.7	327.9	162.3	31.80	8.730
102.0	357.5	480.9	548.6	564.7	518.7	423.7	285.4	135.3	27.32	9.681
105.0	314.4	427.7	492.3	507.9	464.6	374.6	248.5	113.9	25.36	10.69
108.0	275.7	379.1	440.6	455.4	415.2	331.7	216.2	96.15	24.23	11.69
111.0	241.7	336.5	393.7	404.9	369.7	292.9	187.2	78.04	23.59	12.90
114.0	211.9	297.7	350.1	360.7	328.3	258.3	157.2	65.98	23.24	14.09
117.0	185.0	262.8	310.6	320.2	290.8	227.6	129.4	57.58	23.21	15.25
120.0	162.9	231.6	274.8	283.6	257.1	200.7	107.7	51.28	23.39	16.38
123.0	144.1	204.4	242.8	250.5	227.0	175.2	91.12	46.94	23.72	17.52
126.0	128.1	180.3	214.2	221.1	199.1	143.5	79.96	43.92	24.22	18.71
129.0	114.5	159.4	187.7	194.8	175.8	116.3	70.85	41.81	24.76	19.95
132.0	103.2	141.3	165.5	171.8	155.5	99.48	63.81	40.36	25.42	21.22
135.0	94.03	125.8	146.2	151.6	137.9	86.72	58.46	39.35	26.37	22.59
138.0	86.49	112.6	129.4	134.0	122.6	76.68	54.26	38.63	27.76	24.02
141.0	80.22	101.6	115.1	118.8	107.8	70.61	50.99	38.72	29.24	25.53
144.0	75.13	92.45	103.1	106.2	89.58	64.48	48.51	39.34	30.68	27.04
147.0	70.78	84.93	93.15	95.73	75.28	59.83	47.38	39.88	31.88	28.67
150.0	66.95	78.57	84.80	87.03	66.05	56.01	47.15	40.20	33.14	30.20
153.0	63.43	73.14	77.88	79.74	59.86	52.67	46.89	40.43	34.36	31.76
156.0	60.01	68.19	71.85	73.55	54.80	49.68	46.39	40.82	35.55	33.26
159.0	56.53	63.42	66.25	67.91	50.50	47.23	45.56	41.01	36.62	34.66
162.0	53.15	58.78	61.00	62.56	47.66	45.83	44.60	41.10	37.53	35.95
165.0	50.40	54.38	56.07	57.54	45.69	44.61	43.93	41.13	38.47	37.24
168.0	48.08	50.92	51.72	52.96	42.50	43.66	43.21	41.16	39.31	38.50
171.0	45.77	47.78	47.97	47.85	40.95	42.70	42.31	41.01	40.10	39.66
174.0	43.41	44.44	44.07	40.25	39.30	41.43	41.57	41.14	40.82	40.69
177.0	41.61	41.67	37.27	39.08	39.08	40.57	40.98	41.10	41.20	41.32
180.0	40.66	40.53	39.74	38.76	39.37	40.53	40.90	41.28	41.57	41.85
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	3630	3630	3630	3630	3630	3630	3630	3630	3630	3630
3.0	3618	3620	3621	3624	3626	3625	3625	3625	3627	3625
6.0	3593	3598	3600	3606	3609	3608	3610	3609	3609	3607
9.0	3552	3560	3567	3576	3582	3581	3582	3581	3581	3574
12.0	3499	3511	3522	3533	3542	3541	3545	3540	3536	3527
15.0	3431	3447	3464	3478	3491	3493	3495	3488	3481	3466
18.0	3350	3372	3393	3413	3430	3433	3435	3423	3412	3391
21.0	3257	3284	3311	3339	3359	3364	3365	3348	3330	3305
24.0	3153	3185	3221	3253	3280	3286	3285	3263	3239	3206
27.0	3038	3076	3120	3159	3193	3200	3197	3167	3136	3097
30.0	2912	2959	3010	3059	3098	3107	3101	3063	3025	2977

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:30 March 2018

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362

Humidity:53.0%

Test Distance:10.380m [K=1.0000]

Remarks:

Photometric Data Table [cd]

33.0	2780	2833	2894	2950	2997	3007	2998	2953	2905	2848
36.0	2641	2700	2771	2837	2890	2902	2889	2837	2778	2712
39.0	2494	2562	2643	2719	2779	2793	2776	2714	2645	2569
42.0	2344	2419	2511	2597	2664	2678	2658	2588	2507	2420
45.0	2188	2272	2375	2471	2545	2561	2537	2457	2366	2268
48.0	2031	2124	2238	2344	2424	2440	2414	2326	2222	2111
51.0	1871	1973	2100	2215	2300	2318	2287	2192	2077	1955
54.0	1711	1824	1961	2085	2176	2196	2161	2058	1932	1796
57.0	1550	1675	1824	1956	2052	2071	2035	1924	1787	1639
60.0	1390	1528	1688	1827	1928	1949	1908	1791	1645	1483
63.0	1232	1384	1556	1701	1804	1825	1783	1661	1505	1330
66.0	1078	1244	1425	1576	1681	1703	1658	1532	1368	1181
69.0	927.4	1108	1299	1454	1560	1581	1536	1407	1236	1037
72.0	783.5	979.2	1178	1336	1442	1463	1417	1286	1110	900.4
75.0	647.7	857.6	1062	1221	1328	1348	1301	1169	989.3	771.0
78.0	521.0	742.9	952.0	1112	1217	1238	1190	1059	876.5	650.7
81.0	407.4	638.0	849.5	1009	1112	1132	1085	954.2	771.3	541.6
84.0	311.1	543.8	754.7	911.8	1012	1032	985.6	856.3	675.4	446.5
87.0	233.6	460.8	667.9	820.9	918.5	937.0	890.8	765.6	588.9	364.9
90.0	172.2	385.2	588.3	735.8	830.0	847.7	803.4	682.5	510.6	296.3
93.0	127.4	323.0	516.4	657.9	747.8	764.7	721.6	606.2	442.6	240.1
96.0	95.75	270.6	449.8	583.8	672.1	688.0	646.9	536.8	379.1	195.7
99.0	73.87	227.3	384.9	507.3	602.4	617.7	578.5	474.6	327.4	159.0
102.0	59.28	191.0	334.5	439.5	538.1	553.3	515.8	418.7	282.2	131.4
105.0	49.89	161.1	293.2	395.8	475.4	494.2	459.8	368.9	243.4	110.2
108.0	43.90	137.0	253.7	354.5	409.3	440.4	405.5	324.3	210.2	94.19
111.0	40.19	117.6	219.0	312.3	354.8	391.3	359.1	284.3	182.1	82.21
114.0	37.99	102.3	191.8	270.2	318.0	346.5	316.9	249.2	158.5	73.24
117.0	36.61	90.31	161.6	236.7	280.5	305.7	279.1	218.3	139.0	66.40
120.0	35.92	80.94	136.1	210.2	242.8	266.2	245.5	190.9	123.0	61.16
123.0	35.61	73.73	110.8	184.4	216.2	226.8	215.9	168.1	109.7	57.52
126.0	35.58	68.24	97.67	162.7	192.4	192.3	190.0	148.6	98.57	55.01
129.0	35.73	63.88	85.65	142.6	170.3	171.6	166.7	132.0	89.47	53.44
132.0	36.00	60.37	77.30	116.5	150.7	152.6	143.8	117.8	82.03	52.35
135.0	36.36	57.65	70.12	98.16	133.5	134.9	120.6	105.7	76.00	51.47
138.0	36.68	55.55	64.22	86.33	118.7	120.1	106.5	95.48	71.47	50.00
141.0	37.00	53.83	59.61	77.01	106.1	107.6	98.13	87.00	67.81	48.66
144.0	37.27	52.26	56.01	69.47	95.33	96.67	89.74	79.68	63.96	48.11
147.0	37.50	50.87	53.11	63.86	86.64	87.58	82.45	71.56	60.47	47.92
150.0	37.70	49.54	50.97	60.80	79.46	80.32	76.50	66.18	57.51	46.78
153.0	38.08	48.22	49.82	58.46	71.43	74.06	71.15	63.86	55.30	45.53
156.0	38.42	46.83	48.92	54.79	63.48	68.66	66.05	58.94	53.17	44.53
159.0	38.53	45.27	47.37	51.10	56.13	63.61	61.08	56.53	50.65	43.94
162.0	38.52	43.81	44.96	47.65	50.76	58.80	56.36	53.28	47.43	43.36
165.0	38.89	42.96	42.85	44.47	46.29	54.18	51.86	49.69	45.43	42.54
168.0	39.44	41.95	41.52	42.20	42.48	49.73	47.57	46.44	43.95	41.64
171.0	40.45	41.38	40.81	40.85	39.67	45.76	44.27	44.09	42.46	41.25
174.0	41.17	41.53	40.30	39.65	37.88	42.49	41.53	41.87	41.35	41.12
177.0	41.65	41.76	40.31	39.64	37.96	40.01	39.73	40.64	40.82	41.10
180.0	42.22	42.22	40.72	40.61	39.78	38.72	39.39	40.52	40.92	41.26
G/C	300.0	315.0	330.0	345.0						
0.0	3630	3630	3630	3630						
3.0	3627	3626	3625	3624						
6.0	3607	3605	3605	3605						
9.0	3573	3570	3572	3572						
12.0	3524	3521	3523	3526						
15.0	3461	3456	3461	3465						
18.0	3384	3376	3383	3392						
21.0	3294	3284	3295	3306						
24.0	3192	3180	3193	3209						
27.0	3077	3065	3081	3102						
30.0	2952	2938	2957	2985						
33.0	2819	2804	2825	2859						
36.0	2678	2660	2685	2725						
39.0	2529	2509	2538	2585						
42.0	2375	2353	2385	2438						
45.0	2215	2191	2229	2290						
48.0	2053	2028	2068	2138						
51.0	1887	1860	1904	1984						
54.0	1719	1690	1739	1831						
57.0	1551	1518	1574	1677						
60.0	1382	1347	1410	1527						
63.0	1214	1174	1246	1378						
66.0	1048	1002	1087	1235						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

Photometric Data Table [cd]

69.0	885.6	831.3	931.8	1098
72.0	728.3	663.4	782.6	967.3
75.0	577.9	501.1	643.1	844.9
78.0	438.2	347.7	514.5	731.5
81.0	312.2	211.2	398.0	628.7
84.0	211.6	101.2	303.8	538.0
87.0	137.5	32.77	230.0	458.4
90.0	88.69	12.45	173.3	389.1
93.0	58.53	9.623	131.4	330.6
96.0	41.41	10.37	101.6	281.1
99.0	32.80	11.45	80.61	239.7
102.0	28.78	12.63	64.65	199.8
105.0	27.13	13.95	55.30	168.0
108.0	26.26	15.24	49.23	145.1
111.0	26.36	16.57	44.34	124.6
114.0	26.95	17.89	41.40	105.0
117.0	27.76	19.25	39.65	90.31
120.0	28.62	20.62	38.74	80.44
123.0	29.59	21.95	38.26	72.71
126.0	30.51	23.28	38.06	66.63
129.0	31.46	24.65	38.03	62.02
132.0	32.29	25.97	38.04	58.54
135.0	33.00	27.36	38.09	55.80
138.0	33.85	28.78	38.09	53.63
141.0	34.80	30.36	38.95	51.75
144.0	35.71	31.70	39.49	51.14
147.0	36.71	33.23	40.15	50.70
150.0	37.54	34.68	40.95	49.99
153.0	38.17	35.99	41.56	49.24
156.0	38.81	37.20	42.02	48.42
159.0	39.31	38.23	42.21	47.54
162.0	39.77	39.11	42.35	46.82
165.0	40.03	39.87	42.37	45.91
168.0	40.38	40.47	42.37	44.88
171.0	40.75	41.08	42.43	44.08
174.0	41.10	41.45	42.47	43.29
177.0	41.34	41.69	42.33	42.59
180.0	41.58	41.84	42.24	42.20

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:30 March 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks: